

**PATENT CLAIMS**

1. Process for the preparation of cosmetic or pharmaceutical formulations immediately before use, characterised in that two or more liquid components from separate stock chambers are mixed with one another by passing them through a micromixer.

2. Process for the preparation of cosmetic formulations, characterised in that, characterised in that two or more components in liquid form, if necessary after warming, from separate stock chambers are passed through a micromixer for mixing.

3. Process according to Claims 1 to 2, characterised in that two or more components in liquid form, if necessary after warming, from separate stock chambers are passed through a temperature-controlled micro-mixer for mixing and subsequently stirred.

4. Process for the preparation of cosmetic formulations in the form of emulsions immediately before use, characterised in that one or more liquid component(s) with one or more natural, synthetic or semi-synthetic oil(s) from separate stock chambers are mixed with one another by passing them through a micromixer.

5. Process for the preparation of cosmetic formulations in the form of emulsions immediately before use, characterised in that a fat phase consisting of one or more natural, synthetic or semi-synthetic oil(s) and one or more fat(s) which is (are) solid at room temperature, is liquefied in a stock chamber by warming, and this liquid fat phase is mixed with one or more liquid component(s) and, if desired, with a further oil phase by passing them through a micromixer.

6. Process according to Claims 1 to 5, characterised in that the components to be mixed are pumped from the stock chambers and fed into a micromixer through connecting thin tubes, each of which terminates in a channel of the micromixer and forced through the channels of the

*A2*  
micromixer owing to the pressure building up due to the pumping, with intensive mixing and formation of an emulsion.

*A2*  
7. Process according to Claims 1, 4 to 6, characterised in that the components to be mixed are pumped from the pressurised stock chambers, fed into a micromixer through connecting thin tubes, each of which terminates in a channel of the micromixer, and forced through the channels of the micromixer owing to the pressure which builds up due to the pumping, with intensive mixing and formation of an emulsion.

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8. Process for the preparation of liposome-containing formulations immediately before use, characterised in that one or more liquid component(s) with a component containing liposome-forming contents from separate stock chambers are mixed with one another by passing them through a micromixer with formation of the desired liposomes.

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9. Process for the preparation of liposome-containing formulations according to Claim 8, characterised in that one or more of the component(s) to be mixed is (are) warmed before preparation of the formulation.

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*SuM*  
*SAB*  
25 10. Process according to Claims 8 to 9, characterised in that characterised in that the components to be mixed are pumped from the stock chambers and fed into a micromixer through connecting thin tubes, each of which terminates in a channel of the micromixer, and forced through the channels of the micromixer owing to the pressure which builds up due to the pumping, with intensive mixing and formation of a liposome-containing formulation.

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11. Process according to Claims 8 to 10, characterised in that the components to be mixed are pumped from pressurised stock chambers and fed into a micromixer through connecting thin tubes, each of which terminates in a channel of the micromixer, and forced through the channels of the micromixer owing to the pressure which builds up due

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K3  
S1  
to the pumping, with intensive mixing and formation of a liposome-containing formulation.

12. Lotion or solution, prepared by a process according to Claims 1 to 11.

13. Emulsion, prepared by a process according to Claims 1 to 11.

14. Gel, prepared by a process according to Claims 1 to 11.

10 15. Cream, prepared by a process according to Claims 1 to 11.

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